SONY

3-060-12 (1)

FM Stereo/FM-AM Receiver

Operating Instructions

STR-G3

© 1995 by Sony Corporation

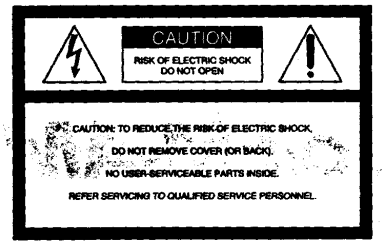
WARNING

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

FOR THE CUSTOMERS IN THE UNITED STATES

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Owner's Record

The model and serial numbers are located on the rear of the unit. Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. STR-G3 Serial No. _____

Note to CATV system installer:

This reminder is provided to call CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

— Reorient or relocate the receiving antenna.
— Increase the separation between the equipment and receiver.
— Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
— Consult the dealer or an experienced radio/TV technician for help.

Note on the remote commander:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

CAUTION

Use of this appliance with some systems may present a shock or fire hazard. Do not use with any units which have the following marking located near output. WARNING: HAZARDOUS ENERGY !

FOR THE CUSTOMERS IN CANADA

CAUTION

TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED AC PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

This class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Industry Canada Notice

This device complies with RSS - 210 of Industry Canada. Operation is subject to the following two conditions :
(1) this device may not cause interference, and
(2) this device must accept any interference, including interference that may cause undesired operation of the device.

Table of Contents

Introduction

Overview 4
Operating configuration of the STR-G3 5
Using the receiver 6
Precautions 6

Chapter 1 Getting Started

Unpacking 7
- Checking the supplied accessories 7
- Inserting batteries into remote commander (RM-VP1) 7

Hooking up the system 7
- Connecting the RC antenna 7
- Connecting the FM and AM antennas 8
- Connecting the IR repeater 8
- Connecting audio equipment 9
- Connecting video equipment 10
- Connecting speaker systems 11
- Connecting to the rear panel switched AC outlet 12
- Preventing interference between two or more remote commanders 12

How to use the remote commander 13
Recording the minimum number of required IR codes 14
- Registering your TV set 14
- Registering your audio/video equipment 15

Chapter 2 Basic Operations

Playing a program source 17
- Using sound fields 18

Receiving a broadcast 19
- Presetting radio stations 19
- Controlling a Sony DSS receiver 19
- Controlling StarSight functions with Sony VCR 19

Recording a program source 20

Chapter 3 Audio Adjustment

Preparing your space for Dolby surround sound 21
Customizing a sound field 23
- Description of sound fields 23
- How the digital surround processor works 23
- Sound field settings 24
- Adjusting the surround sound parameters 25
- Adjusting the tone parameters (TONE EDIT) 26

Chapter 4 Advanced Operations

Operating the STR-G3 without the TV set (Illuminated control flasher) 27
Adding names (INDEX) 28
- Change the group assignment of a particular disc 29
- Playing CDs with the LIST funciton 29

Starting program sources automatically — AUTO PLAY 30
Enjoying two program sources at the same time 31
Starting a specified program source automatically — AUTO START 31
Recording other manufacturers' infrared (IR) codes — USER IR CODE SETTING 32
Starting program sources and other electrical equipment automatically and sequentially — MACRO PLAY SETTING 34
Selecting the display color 35
Specifying the sensitivity of the remote commander — FEELING 35

Chapter 5 Additional Information

Identifying the parts and controls 36
Specifications 37
Troubleshooting guide 39

Overview

The STR-G3 is an FM Stereo/FM-AM receiver and audio/video control center that allows you to select and control multiple audio and video program sources using a hand-held remote commander and on-screen operations. Below are some of the features of the STR-G3.

On-screen control with a supplied remote commander (RM-VP1)

The supplied remote commander allows you to control multiple program sources with large, on-screen control buttons and a variety of on-screen control functions.

- The **AUTO PLAY** function starts playing the program source for you the moment you select it from the FUNCTION SELECT menu.
- The **AUTO START** function turns on a program source of your choice when you turn on the STR-G3.
- The **USER IR CODE SETTING** function allows you to control home appliances, lights or other equipment that come with infrared remote commanders.
- The **MACRO PLAY SETTING** function lets you string together up to 8 IR codes, then execute them automatically and sequentially at the touch of a button.

Digital signal processing

- A **digital surround processor** electronically reproduces the acoustics of various listening environments.
- A **tone level processor** allows you to adjust the bass and treble levels according to your tastes.
- A **DOLBY* PRO LOGIC Surround Decoder** that is identical to that used in movie theaters, gives you the same theater-like sound experience.

Sound field

- Six factory-set sound fields (surround and parametric equalizer settings) can be selected to reproduce a variety of sound environments of your own creation.
- Once you select a sound field for a program source (except for the TAPE function), the sound field is activated whenever you select the source afterwards.

Simultaneous enjoyment of audio and video programs sources

Mix and match audio and video program sources of your choice. (See page 31.)

Tuner

- A **quartz locked digital synthesizer** is used to enable highly precise tuning.
- A **station indexing system** allows you to add station names for quick and easy tuning.

Access to CD changer disc information

By connecting your unit to a Sony CD changer with a Control A connector, you can access disc information stored in the CD changer and display it by group name, in alphabetical order, or in numerical order.

You can control a Sony DSS* receiver and VCR with built-in StarSight*** tuner**

By connecting a Sony DSS receiver and VCR with built-in Star Sight tuner to the STR-G3, you can control each device through the STR-G3.

* Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under one or more of the following patents: U.S. number 3,959,590; Canadian numbers 1,004,603 and 1,037,877. "Dolby", "Pro Logic", and the double-D symbol w are trademarks of Dolby Laboratories Licensing Corporation.

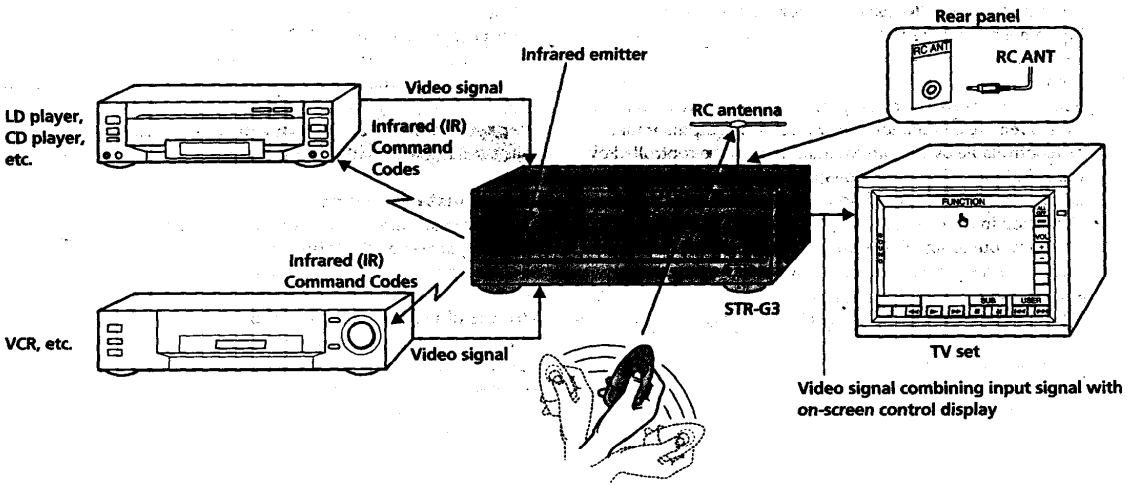
** DSS® is a registered trademark of DIRECTV, Inc., a unit of Hughes Electronics Corporation.

*** StarSight features licensed under U.S. patent numbers 4,706,121 and 5,151,789. For licensing and subscription information, call 1-800-643-STAR.

© 1995 StarSight Telecast, Inc. StarSight is a trademark of StarSight Telecast. StarSight is a subscription service. VCR required for recording.

Operating Configuration of the STR-G3

Before you can use the STR-G3 remote commander, you must connect the remote control (RC) antenna as shown below.
Steel beams within walls and other metallic objects may interfere with signal reception by the RC antenna. To prevent this, keep the RC antenna at least 20 inches (about 50 cm) away from all metallic objects.



STR-G3's Remote Control Operations

1 The remote commander emits a constant radio frequency (RF) signal that conveys any movement of the remote commander to the STR-G3 via the RC antenna, thereby controlling the movement of the pointer (hand icon) on the on-screen display.
2 When you move the pointer to an on-screen control button, then press the button on the remote commander, the infrared (IR) code for the control button is emitted from the infrared emitter on the STR-G3 to the respective program source.

If the screen flickers or the pointer does not move

The remote commander's RF signal is being obstructed and it is not reaching the RC antenna. Reposition the RC antenna or bring the remote commander closer to the RC antenna.

If the program source fails to respond or is slow to respond

The remote control signal is not fully reaching the program source from the infrared emitter. Bring the STR-G3 and the program source closer together, or bring the IR repeater closer to the program source. (See page 8.)

If control buttons for which IR codes have been recorded (in accordance with "Registering Your Audio/Video Equipment" on pages 15 to 17) are unresponsive or slow, repeat the procedure for recording IR codes for those buttons.

- When the STR-G3 is connected to a TV set, you will be able to do most control operations through on-screen control buttons activated by the remote commander.
- Manual control of program sources is also possible through the buttons on the unit itself.
- In addition to Sony products, the unit can control any equipment with infrared remote control capability, including AV equipment of other manufacturers, lighting equipment and projection screens. To do this, you must first record the infrared (IR) codes from their respective remote commanders. (See "Registering Your Audio/Video Equipment" on page 15.)

Notes

- Since the unit can record only infrared codes that are output from a remote commander, only electrical equipment that are controllable by remote commanders can be controlled by the unit. Manually controlled equipment, such as power amplifiers, must be turned on and off manually.
- Distortion in the on-screen display may occur when the program source signal is weak or unstable due to damage in the program source or damage or wear of the program source medium.

On safety

- Before connecting the unit to an AC outlet, be sure that the operating voltage of your unit is identical with that of your local power supply.
- Should any solid object or liquid fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- Unplug the unit from the wall outlet if it is not to be used for an extended period of time. To disconnect the cord, pull it out by grasping the plug. Never pull the cord itself.
- One blade of the plug is wider than the other for the purpose of safety and will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.

To prevent internal heat buildup in the unit

Place the unit in a location with adequate air circulation.

Do not install the unit:

— near heat sources such as radiators or air ducts.
— in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.

Do not place anything on top of the cabinet

The top ventilation holes must be unobstructed for the proper operation of the unit and to prolong the life of its program sources.

Do not throw away the carton and packing material

It will be an ideal container when transporting the system for repair work, etc.

On operation

Before making program source connections, be sure to turn the power switch off and unplug the unit.

On cleaning the cabinet

Clean the cabinet, panel and controls with a soft cloth lightly moistened with mild detergent solution. Do not use any type of abrasive pad, scouring powder, or solvent such as alcohol or benzine.

For the customers in the U.S.A.

For detailed safety precautions, see the "IMPORTANT SAFEGUARDS" leaflet.

If you have any question or problem concerning your unit, please consult your nearest Sony dealer..

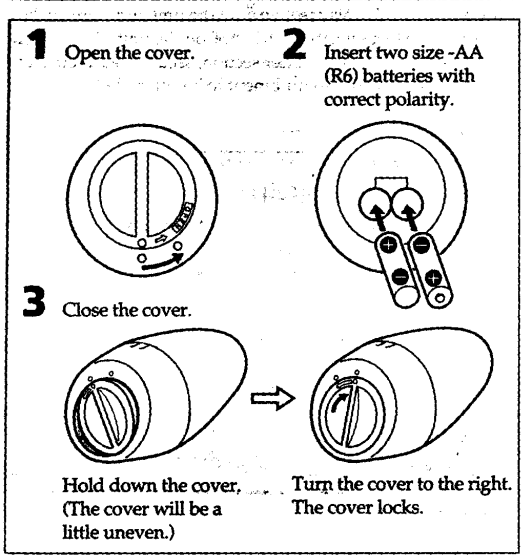
Unpacking

Checking the Supplied Accessories

After unpacking, check that the following accessories are present.

- FM wire antenna ..... (1)
- AM loop antenna ..... (1)
- Remote commander (RM-VP1) ..... (1)
- Sony SUM-3 (NS) batteries ..... (2)
- Remote Control (RC) antenna ..... (1)
- IR repeater ..... (1)
- Getting Started and Basic Operation ..... (1)
- AC plug adaptor (only for the model on which the voltage selector is set to 220 V AC) ..... (1)

Inserting Batteries Into Remote Commander (RM-VP1)


1 Open the cover.
2 Insert two size -AA (R6) batteries with correct polarity.
3 Close the cover.
Hold down the cover. (The cover will be a little uneven.)
Turn the cover to the right. The cover locks.

Note

After inserting batteries into the remote commander, place it undisturbed on a flat surface for about 10 seconds to allow the internal circuitry to calibrate.

To avoid damage caused by battery leakage and corrosion

When the commander will not be used for a long time, remove the batteries.

Battery life

- Normal operation can be expected about three months using Sony SUM-3 (NS), and a half year using Sony AM-3 (NW) alkaline batteries. Since the remote commander consumes power whenever you pick it up and an on-screen display appears, the service life of the batteries may be less than three months, depending on how much you handle the remote commander.
- When the batteries become weak, LOW will appear on the display during the initial on-screen displays (but possibly not at the deeper menu levels). When EMPTY appears, the batteries are almost completely drained and will soon need

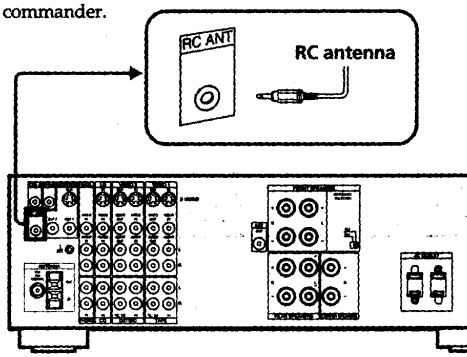
Hooking Up the System

This section explains the connection of the antennas, proj sources, speakers and AC power sources. Follow the precautions below when making connections to the unit:

- Make sure all connections have been made before plug the power cord into an AC outlet and pressing the PO switch.
- Insert the cable connectors firmly into the jacks. Loose connections may cause hum and noise.
- Jacks and plugs of connecting cords are color coded as follows:
  Red jacks and plugs: Right audio channel
  White jacks and plugs: Left audio channel
  Yellow jacks and plugs: Video signals
- If your receiver has the voltage selector on the rear of t unit:
  Your receiver operates on either 120, 220 or 240 V AC. Before connecting the unit to a wall outlet, be sure to s voltage selector on the rear of the unit to the appropria position according to your local power supply.

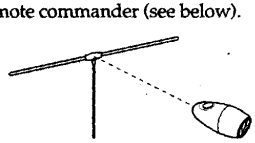
Connecting the RC Antenna

Since the remote commander controls the unit using radi frequency (RF) signals, you must connect the remote con (RC) antenna to the unit before you can use the remote commander.



To maximize RF signal transmission efficiency:

— Position the RC antenna perpendicular to the signal of the remote commander (see below).



— Operate the remote commander within about 24 feet (about 7 m) of the RC antenna.
If you have difficulty operating the on-screen displa within this range, reposition the RC antenna for bett reception.

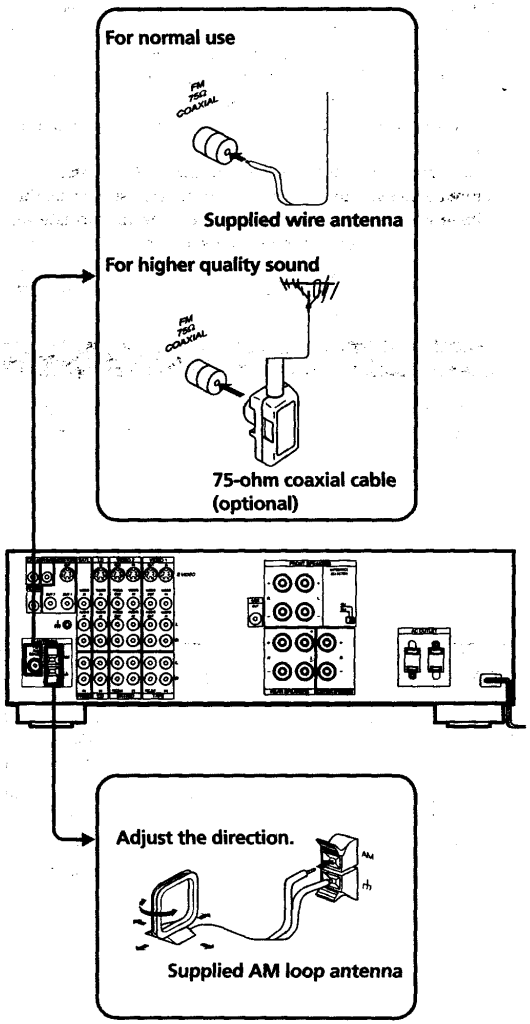
— Keep the RC antenna at least 20 inches (about 50 cm) from metallic objects.

(Conti

Hooking Up the System

Connecting the FM and AM Antennas

Though a wire FM antenna is supplied with the unit, you can obtain better reception if you connect an outdoor FM antenna to the unit with a 75-ohm coaxial cable.
The AM loop antenna supplied with the unit is adequate for most AM broadcasts.



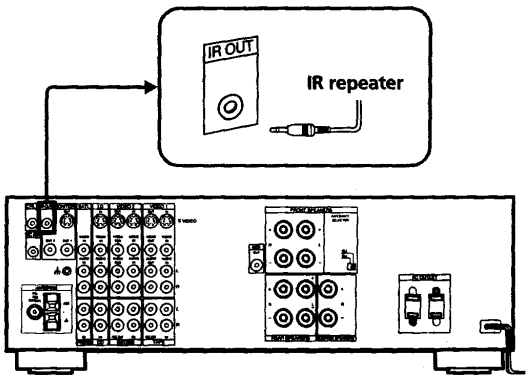
Note
To prevent noise pick-up, keep the AM loop antenna away from the unit and TV set.

If your area has poor AM reception
Connect an 18- to 45-foot (6 to 15 meter) insulated wire to the AM antenna terminal and extend the wire outdoors, keeping it as horizontal as possible. (Keep the supplied an loop antenna connecting.)

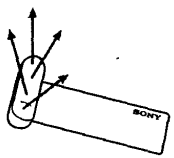
To prevent hum
Connect a ground wire to the ANTENNA ground terminal (⏚). If you use an outdoor antenna, be sure to connect the ground wire for lightning protection.

Connecting the IR Repeater

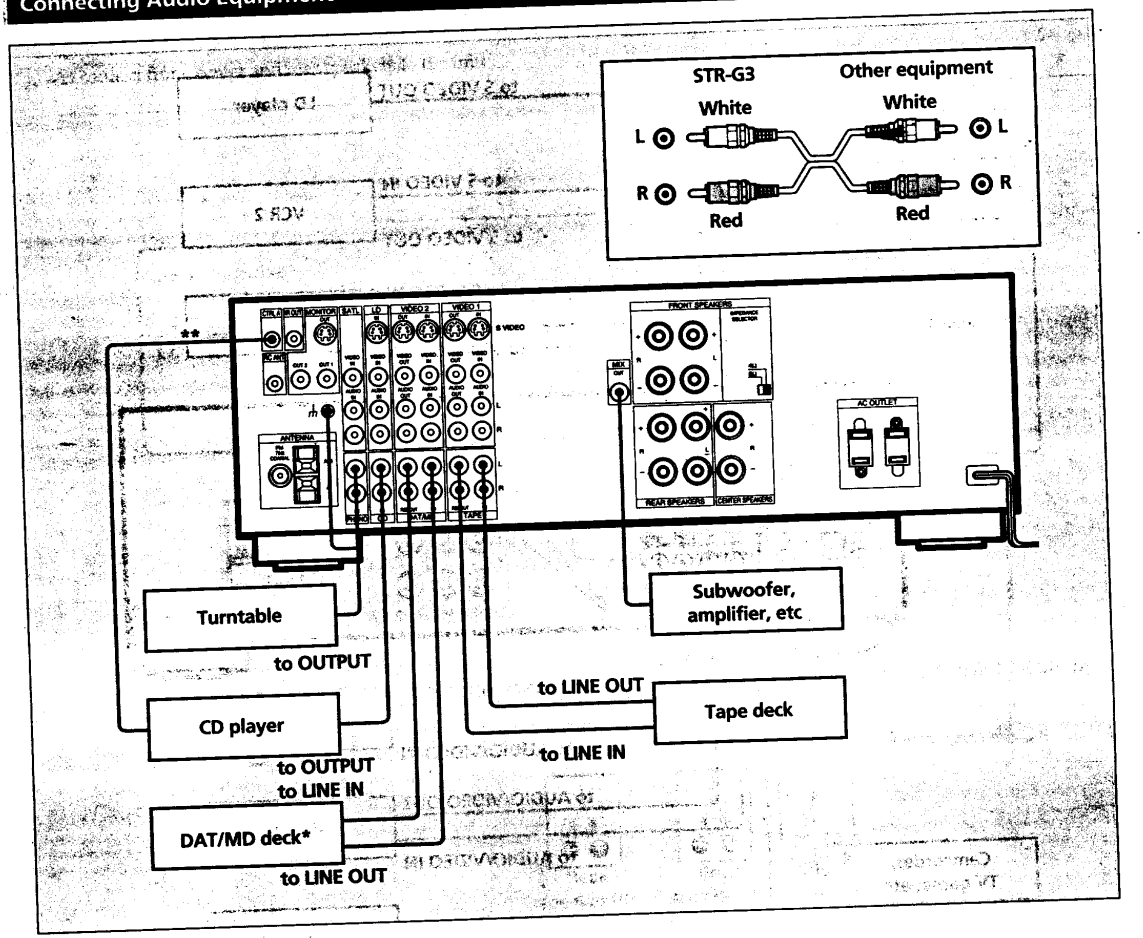
If you experience trouble controlling electrical equipment, it may be due to weak infrared (IR) signal transmission from the infrared emitter. In this case, turn off the unit and connect the plug end of the IR repeater to IR OUT on the unit. Then, using the adhesive side of the emitter section, secure the IR repeater so that its front faces the equipment to be controlled.



IR repeater



Connecting Audio Equipment



* To connect both DAT and MD decks, connect one of the units to VIDEO AUDIO IN/OUT jacks that are free.
** Connect Sony CD changer equipped with a CTRL A jack.

Connecting a subwoofer with a power amplifier

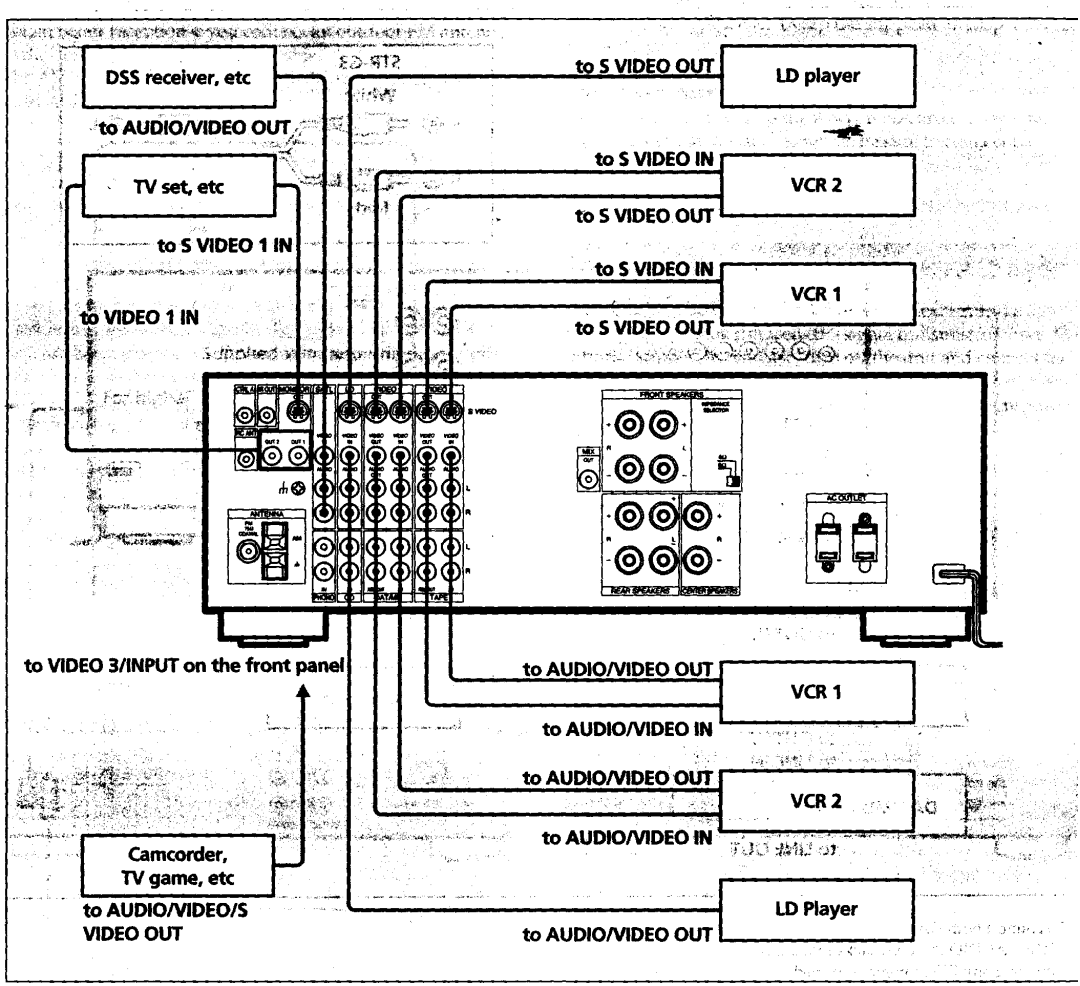
Connect the line-input plug of the subwoofer to the MIX OUT jack.

Connecting a CD changer

- Connect the audio output plug of the CD changer to the CD IN jack on the unit. If you connect the CD changer to another jack, you won't be able to use the CD INDEX function (page 28).
- If your CD changer is Sony's and equipped with a command mode switch, set it to CD 1.

Hooking Up the System

Connecting Video Equipment



Connecting a VCR and TV set equipped with S jacks

Use connecting cords with S-connector plugs to connect the VCR and TV to the S VIDEO jacks on the unit.

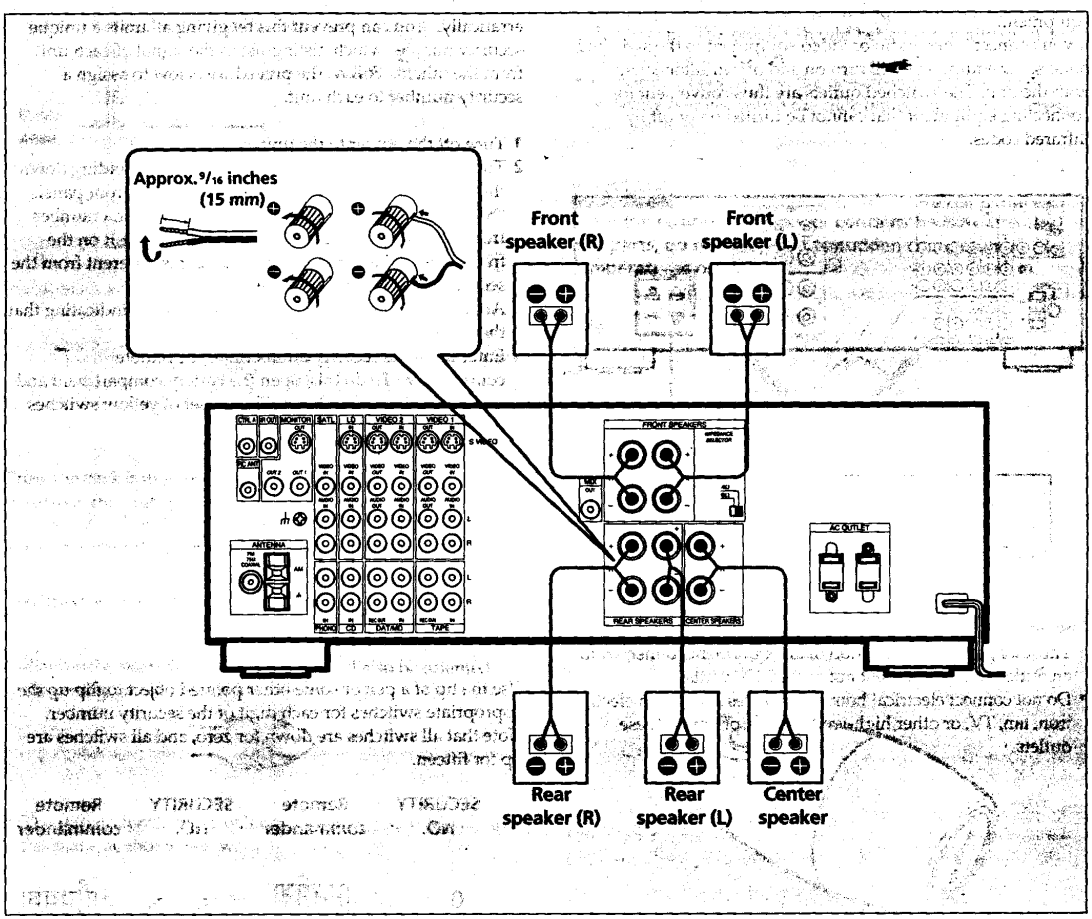
Use a normal connecting cord for the video connections, as in the case of a VCR without S VIDEO connectors.

Notes

- A higher quality picture results when you use the S jacks to connect a VCR and TV set with S connectors. If your TV set has no S connector, connect it through the OUT 1 or 2 jack.
- The S VIDEO circuitry and the VIDEO circuitry of this unit are independent of each other. The signals input from the S VIDEO jacks are not output to the VIDEO jacks, and the signals input from the VIDEO jacks are not output to the S VIDEO jacks. Therefore, video dubbing is only possible between respective sets of S VIDEO jacks or VIDEO jacks.
- To watch a TV set through its S VIDEO IN jack, connect the TV set to the MONITOR OUT S VIDEO jack on the unit, then set the input selector on the TV set. To watch a TV set through its VIDEO IN jack, connect the TV set to the MONITOR OUT 1 or 2 jack on the unit, then set the input selector on the TV set.
- If you connect your VCR through both the S VIDEO IN and VIDEO jacks at the same time, the on-screen display color output from MONITOR OUT 1 or 2 will be distorted.
- When you connect two or more VCRs to the unit, make sure to use the distributor for connecting the TV antenna to the VCRs.

Connecting Speaker Systems

You can connect front, center and rear speakers to the unit.



On the IMPEDANCE SELECTOR

The STR-G3 has the IMPEDANCE SELECTOR for front speakers.

When using the front speakers having nominal impedance from 4 ohms or higher, set to the 4 Ω position.

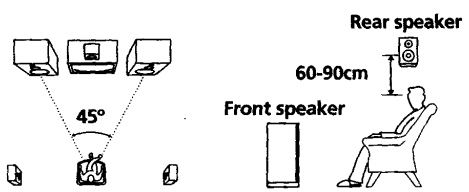
When using the front speakers having nominal impedance from 8 ohms or higher, set to the 8 Ω position.

Note

Connect right speakers to the R connectors, and left speakers to the L connectors. When connecting speaker wires to the speaker terminal, make sure that the polarity (+ or –) of the speaker wires is the same at both ends. If the polarity is reversed for any pair of speakers, the sound will be distorted and the bass will be weak.

Positioning the speakers

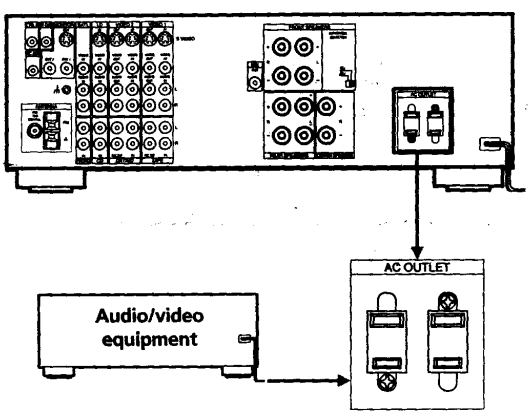
For optimum surround sound effect, place your speakers as shown below.



Hooking Up the System

Connecting to the Rear Panel Switched AC Outlet

The two switched AC outlets on the rear panel allow you to use the unit as a power source for other audio or video equipment.
If you connect other audio or video equipment to the switched outlets, the equipment will turn on and off simultaneously with the unit. The switched outlets are thus convenient for connecting equipment that cannot be turned on or off by infrared codes.



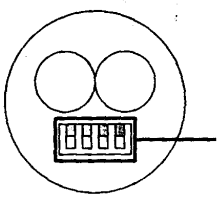
Caution

- The total power consumption of all equipment connected to an outlet on the unit must not exceed 120 watts.
- Do not connect electrical home appliances such as an electric iron, fan, TV, or other high-wattage equipment to these outlets.

Preventing Interference Between Two or More Remote Commanders

If you use two or more STR-G3s at the same time, interference may occur between the RF signals, causing the units to operate erratically. You can prevent this by giving all units a unique security number which distinguishes the signal of each unit from the others. Follow the procedure below to assign a security number to each unit.

1 Turn off the power to the unit.
2 Turn on the unit again while simultaneously holding down the PHONO, CD, and TUNER buttons on the front panel. "SECURITY No." appears in the display. Enter a number from 0 to 15 by pressing PHONO, CD or TUNER on the front panel. Make sure that the number is different from the security code of the other units.
3 After a few seconds, SECURITY OK! appears, indicating that the code has been recorded.
4 Enter the same security number into the remote commander. To do this, open the battery compartment and remove the batteries. You will see a set of yellow switches as shown below.

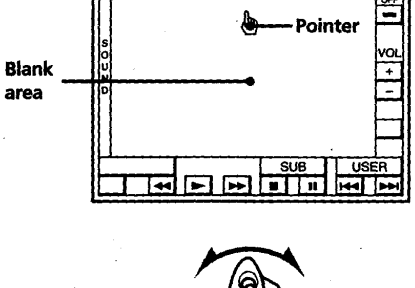


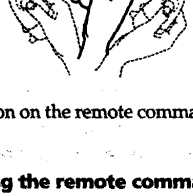
Use the tip of a pen or some other pointed object to flip up the appropriate switches for each digit of the security number. Note that all switches are down for zero, and all switches are up for fifteen.

SECURITY NO.	Remote commander	SECURITY NO.	Remote commander
0		8	
1		9	
2		10	
3		11	
4		12	
5		13	
6		14	
7		15	

How to Use the Remote Commander

The tip of the remote commander pointing towards the RC antenna, move it to position the pointer on the on-screen display onto menus and individual operation buttons, then press the click button to operate the selected buttons.



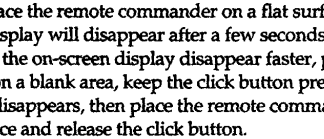


Press the click button on the remote commander once or twice to turn on the unit.

Hints on handling the remote commander

- A slight move of the wrist is all you need to direct the pointer. (See illustration above.)
- Hold the remote commander with its "click" button facing up, as shown below. If the click button is oriented diagonally, the pointer on the screen will also be oriented diagonally.

- The remote commander will not operate if you move along a flat plane as shown below.



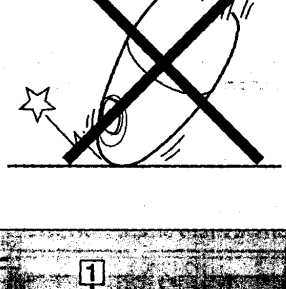
- If you place the remote commander on a flat surface, the on-screen display will disappear after a few seconds.
  To make the on-screen display disappear faster, position the pointer on a blank area, keep the click button pressed as the display disappears, then place the remote commander on a flat surface and release the click button.
  The on-screen display will reappear each time you touch or press the click button on the remote commander.

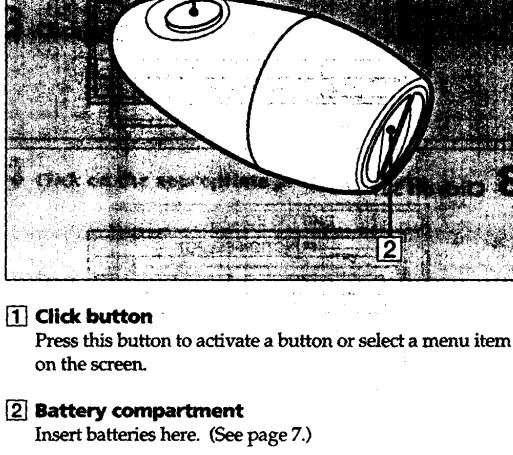
Notes

- The position of the pointer freezes when you hold down the click button.
- If the pointer begins drifting on the screen even while the remote commander is stationary, place the remote commander on a flat surface until the on-screen display disappears. The pointer should behave normally the next time you use the remote.
- If your hand is very dry, the on-screen display may not appear when you touch the click button. In this case, press the click button.

Caution

Since the remote commander contains delicate circuitry and parts, do not subject it to sudden changes in temperatures or to shock.





1 Click button
Press this button to activate a button or select a menu item on the screen.

2 Battery compartment
Insert batteries here. (See page 7.)

Note

If the on-screen display does not appear even when batteries are inserted into the remote commander, reinsert the batteries and place the remote commander on a flat surface for about 10 seconds.

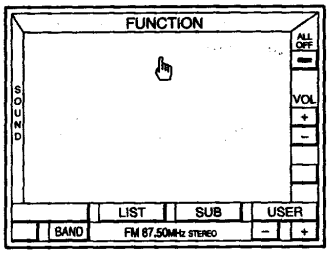
Recording the Minimum Number of Required IR Codes

Registering Your TV Set

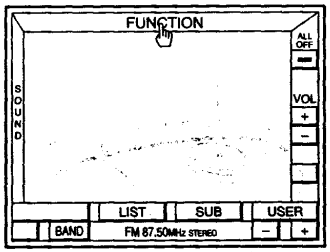
After registering your TV set, it will turn on at the same time you turn on the STR-G3 with the remote commander. This procedure is unnecessary if your TV set is a Sony product with an infrared remote control capability, and is connected to the unit through the VIDEO 1 input jack on the TV set.

1 Turn on the unit and TV set.

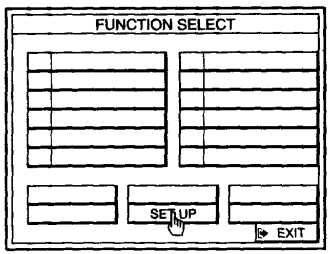
Make sure the input selector on the TV set is set to video input.



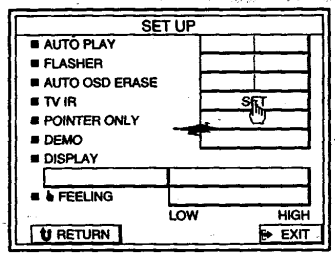
2 Click on FUNCTION in the main menu.



3 Click on SET UP.



4 Click on TV IR SET.



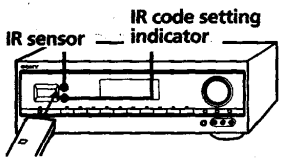
Before going to step 5, cover the remote control sensor on the TV set to prevent accidental operation of the TV set as you record the IR codes.

Note

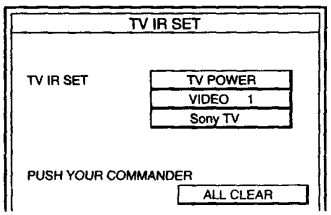
Some Sony TV sets may select an input source other than VIDEO1 when you turn them on with the STR-G3. To ensure the selection of VIDEO1, do steps 1 to 4 of the TV setup procedure, click on VIDEO1 in step 5, then record the IR code for the VOL – button of the TV set's remote commander.

5 When a control button appears on the TV screen, press the same one on the TV's remote commander.

Point your TV's remote commander at the IR sensor from a distance of about 8 inches (20 cm) and hold down the button on the remote commander after you make sure that the command "PUSH YOUR COMMANDER" appears on the TV screen and that the IR codes setting indicator lights up. At this time, keep the remote commander pointed vertically at the STR-G3 until you finish recording the IR codes. If you tilt or move the remote commander while doing this, you may not be able to record the IR codes correctly.



The IR code takes about 5 seconds to be recorded. This is followed by the instruction "RELEASE YOUR COMMANDER" on the TV screen. The IR codes setting indicator will turn off at this time. Repeat this procedure for the remaining buttons that appear on the TV screen. If an IR code was not correctly recorded, the IR code setting indicator will flash.



- If your TV set's remote commander has an independent input selector button, record the IR code of this button (e.g., VIDEO1) when the VIDEO1 button appears.
- If your TV set has no independent input selector button or only a cyclic input selector button:
  Click on EXIT to return to the main menu. When you do this, the video input will not be automatically selected when you turn on the unit.
  If you have mistakenly recorded the IR code for the VIDEO 1 button, you will have to set the input selector on the TV set for VIDEO 1 input manually after recording the VOL – button to the VIDEO 1 button in step 5.

Notes

- Click on ALL CLEAR to erase all recorded IR codes.
- Even if "RELEASE YOUR COMMANDER" appears on the TV screen, you may have difficulty operating the recorded IR code. In this case, record the IR code again.

To exit from the menu
Click on EXIT.

To go to the previous menu
Click on RETURN.

To change from another manufacturer's TV set to a Sony TV set
Connect the unit to the VIDEO1 input jacks of the Sony TV set. Follow steps 1 through 4, then click on SONY TV IR in step 5.

Registering Your Audio/Video Equipment

If you have Sony audio or video equipment with an infrared remote control capability, simply connect it to the appropriate STR-G3 jacks. IR code setting is unnecessary.

— when you connect a Sony product to connectors other than those specified for it in the table below. (for example, when connecting a Sony LD player to the VIDEO3 jacks).
— when exchanging a non-Sony audio or video program source with a Sony product.

STR-G3 jacks		Equipment to be connected
VIDEO 1	→	Sony VCR[1] (VHS VCR to VTR3.)
VIDEO 2	→	Sony VCR[1] (Beta or ED Beta VCR to VTR1.)
VIDEO 3	→	Sony VCR[1] (8mm VCR to VTR2.)
LD	→	Sony LD player
SATL[2]	→	Sony DSS reciever
DAT/MD[3]	→	Sony DAT deck
CD	→	Sony CD player
TAPE	→	Sony Tape deck
MONITOR	→	Sony TV (VIDEO 1 jack)

[1] If your VCR has a COMMAND CODE selector switch (i.e., for VTR1, VTR2, or VTR3), set the switch to the applicable setting. If your VCR has a built-in StarSight tuner, you must set the COMMAND CODE selector switch to VTR 3.
[2] SATL is the abbreviation for satellite and used for a name of jacks connecting a Sony DSS receiver to the unit and a name of equipment in the function menu.
[3] You must do the IR code setting procedure for a Sony MD deck connected to these jacks.

If you've connected audio or video equipment made by another manufacturer, you must first record the IR codes used by the equipment before you can control it through the STR-G3.
You can record up to 120 IR codes, including user IR codes; however, depending on the type of codes recorded, the maximum limit may be less than 100. It may also be difficult or impossible to record up to 120 codes under the following conditions:

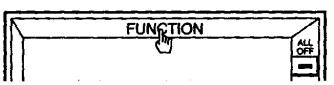
— When recording the IR codes of special remote commanders, such as card type models or those for air conditioners.
— When recording from remote commanders with weak batteries.
— When recording IR codes that have been recorded to a programmable remote commander (i.e., the IR codes of other equipment controlled by the remote commander).

---

1 **Turn on the unit and your TV set.**
The main menu appears.

---

2 **Click on FUNCTION in the main menu.**



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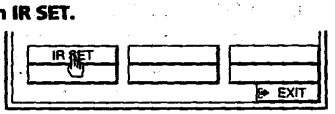
3 **Click on IR SET.**



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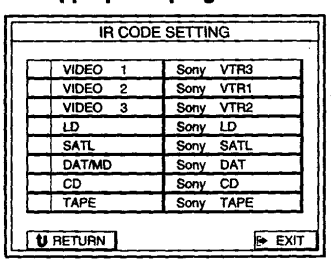
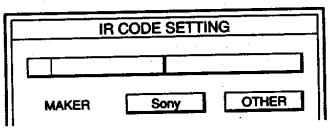
4 **Click on the appropriate program source.**



(Continued)

Recording the Minimum Number of Required IR Codes

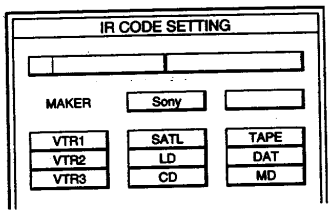
5 Click on Sony for a Sony product, or on OTHER for a non-Sony product.



6 Click on the respective program source.

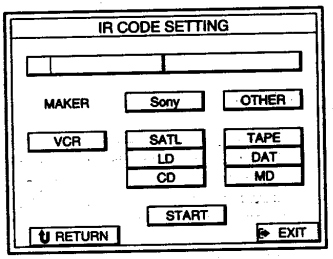
If the program source is a Sony product

The IR codes are automatically recorded and this procedure ends.



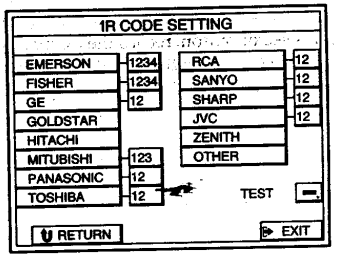
If the program source is not a Sony product

- When the equipment is other than a video deck or laser disc player:
  Click on START. The control buttons of the selected program source will appear. Go to step 7.



- When the equipment is a video deck or laser disc player, do the following:

1 Click on START.
  A list of other manufacturers will appear.
2 Click on the manufacturer of the respective program source.
  The IR codes for that program source are automatically recorded.
  If the manufacturer is not in the list, click on "OTHER", then go to step 7.



3 Click on TEST.
  If the selected program source turns on, it means the IR codes have been recorded. This ends the procedure.

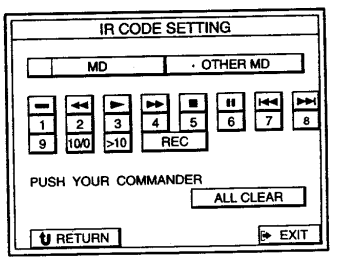
  If the program source does not turn on, click on number button beside the name of the manufacturer to select another number, then click TEST again.
  If the program source still does not turn on, go to step 7.

Notes

- Even if you recorded the IR codes to TOSHIBA 2 or RCA 2, you cannot turn the TV set on or off by the STR-G3. (The power does not go on even when you click on TEST.)
- Even after recording the IR codes of a program source made by another manufacturer in step 6-3, you may sometimes have difficulty operating the INPUT button, number buttons, and ENTER button or only one of these buttons. In this case, record the IR code of the respective button in step 7.
- When recording the IR codes of equipment made by other manufacturers, unplug the program source or cover the infrared sensor to prevent accidental operation of the program source.
- Some laser disc players made by another manufacturer may not operate the ▶▶ and ◀◀ buttons, even though you record the IR codes of those buttons in step 6-3. In this case, record the IR codes of the ▶▶ and ◀◀ buttons in step 7.
- The IR codes of the Sony MDS-101 MiniDisc (MD) recorder must be recorded in steps 5 to 7 as if they are those of equipment made by another manufacturer.

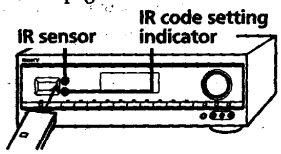
7 When a control button is highlighted on the TV screen, press the same button on the remote commander.

⏻ is the POWER switch.



Playing a Program Source

For details on recording special IR codes that do not appear on the screen, see "Recording Other Manufacturers' Infrared (IR) Codes (USER IR CODE SETTING)" on page 32.



Point the remote commander at the IR sensor from a distance of about 8 inches (20 cm) and hold down the button on the remote commander after you make sure that the command "PUSH YOUR COMMANDER" appears on the TV screen and that the IR codes setting indicator lights up. At this time, keep the remote commander pointed vertically at the STR-G3 until you finish recording the IR codes. If you tilt or move the remote commander while doing this, you may not be able to record the IR codes correctly.
The IR code takes about 5 seconds to be recorded. This is followed by the command "RELEASE YOUR COMMANDER" on the TV screen. Repeat this procedure for the remaining buttons.

After you've recorded all the IR codes, the IR CODE SETTING menu reappears.

Note

Some IR codes may not have been successfully recorded even if the message "RELEASE YOUR COMMANDER" appears on the TV screen. If an IR code does not work, try recording it again. For example, to re-record the ► button, click on the ► button shown on the screen, then press the ► button on the remote commander of the respective equipment.

8 Repeat steps 4 to 7 to set the IR codes of additional program sources.

To exit from the menu
Click on EXIT.

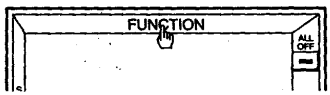
To go to the previous menu
Click on RETURN.

To erase all recorded IR codes
Click on ALL CLEAR.

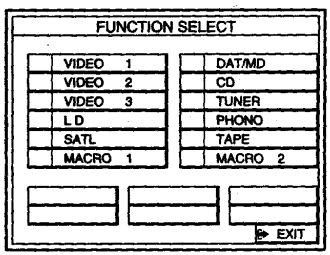
Notes

- The unit emits an IR signal that cancels the automtic playback function of program sources, such as laser disc and CD players, designed to start playing the moment they are turned on. Set the AUTO PLAY function of the STR-G3 to on.
- The unit may not be able to record IR codes with special waveforms produced on some remote commanders.
- Keep the infrared sensor away from fluorescent light or direct sunlight. Otherwise, the IR codes may not be recorded.
- Even if the power cord has been disconnected from the AC power outlet, recorded IR codes will stay in the memory for approximately two weeks. If they disappear, "ALL CLEAR" will appear on the TV screen when you turn on the unit again.

1 Click on FUNCTION in the main menu.



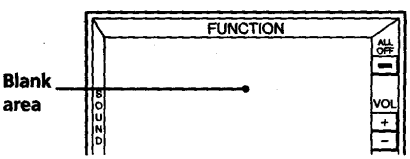
2 Click on the program source.
The program source begins playing immediately.



Notes

- The tape icon and function button appear in green in the FUNCTION SELECT menu during tape monitoring.
- The AUTO PLAY function is set at the factory to begin playing the program source immediately after it is selected. To turn the AUTO PLAY function off, see page 30.
- No control button appears when you click on PHONO.

3 Adjust the volume.
Click on VOL + or VOL –.



If you want to see the whole screen while playing a video program source, hold down the button on the remote commander while the pointer is positioned in a blank area in the main menu. The on-screen display disappears as long as the button is pressed. To leave the on-screen display disappeared, place the remote commander on a flat surface while keeping the click button pressed, then release the button.

(Continued)

Playing a Program Source

To return to the main menu
Click on EXIT.

To turn off all connected program source
Click on ALL OFF.
However, if you use the program source in which the power turns on only by pressing the play button, you cannot turn off the program source even if you click on ALL OFF when the AUTO PLAY function (page 30) is off. In this case, click on [-] then on the play button (►).

To turn off the selected visual program sources
Click on [-] in the bottom left corner.

To show other control buttons
Click on SUB. To show user IR control buttons (see "Recording Other Manufacturers' Infrared (IR) Codes — USER IR CODE SETTING" on page 32), click on USER. If you select another equipment while displaying user IR control buttons, the user IR control buttons of the selected equipment will also be displayed.

To watch TV programs
The unit uses the tuner built in the video deck. Select the FUNCTION SELECT menu, click on the button for a connected video deck, then click on TV♦ in the VCR control panel. To return to the VCR, click on VTR♦ in the TV control panel.
When you leave directly from the TV control panel to the FUNCTION SELECT menu, the AUTO PLAY (page 30) functions will not operate the next time you select it as a program source.

To jump between the current TV channel and the previous one
Click on JUMP.

Selecting program sources on the STR-G3 front panel
Press the button for the desired program source on the front panel. Program sources selected in this way cannot be played with the AUTO PLAY function.

Notes
- Program sources of the same type will be simultaneously controlled by the remote commander.
  For example, if you use the remote commander to start playing one of two Sony laser disc players in the room, the other will start playing at the same time.
- If a program source does not respond, it may be because IR codes from the unit are not fully reaching the selected program source. If this happens, change the position of the unit or the program source, or connect the plug end of the IR repeater to the IR OUT on the unit, and place the IR repeater close to the program source.

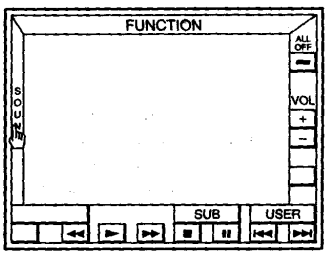
Muting the sound temporarily
Click on [⊠]. The icon turns on.
To turn the sound back on, click on the icon again.

To change the video input of a Sony VCR
Click on INPUT in the video deck control panel.

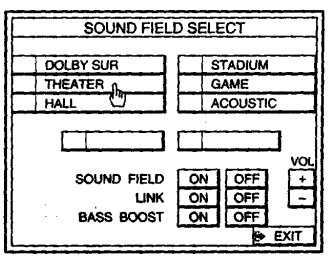
Using Sound Fields

The STR-G3 comes with six different preset sound fields that reproduce the acoustics of various sound environments.
For more information on sound fields, see "Description of Sound Fields" on page 23.

1 While playing a program source, click on SOUND in the main menu.



2 Click on a sound field.
The sound field turns on.



Linking a sound field to a program source
When LINK is on, selecting a sound field for a program source (except the TAPE function) links that sound field to the program source. The sound field will then turn on whenever you select the source afterwards.

To increase the bass
Click on BASS BOOST ON.

To return to the main menu.
Click on EXIT.

To customize the parameters of a selected sound field
You can adjust the surround sound and tone parameters. For more information, see "Customizing a Sound Field" on pages 24 to 26.

Receiving a Broadcast

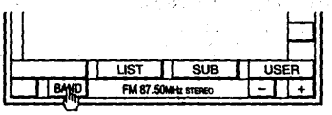
Presetting Radio Stations

You can preset up to 30 FM or AM radio stations, then recall them later with the click of a button..

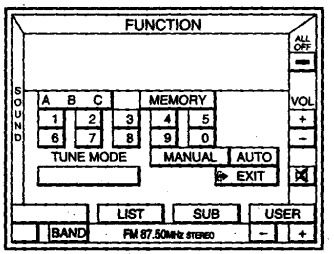
1 Click on FUNCTION in the main menu.
The FUNCTION SELECT menu appears.

2 Click on TUNER.

3 Click on BAND, then select FM or AM.



4 Click on SUB, then click on TUNE MODE MANUAL or AUTO for tuning.
Click on MANUAL for manual station selection.
Click on AUTO for automatic station selection.



5 Click on FREQ + or – to tune in the station to be stored.

6 Click on SHIFT to select a memory page (A, B, or C).
Each click selects A, B, or C.

7 Click on MEMORY.

8 Click on the button (0 to 9) to store the radio station.
The button lights up and the selected station is stored.

9 Repeat steps 3 through 8 to preset more stations.

Tuning in a preset radio station

1 Click on LIST.
2 Click on A, B or C to show your favorite stations.
3 Click on the button (0 to 9) where the station you want is stored.

To link a sound field to a preset station

After selecting the preset station, click on SOUND in the main menu, then select a sound field from the SOUND FIELD SELECT MENU with LINK set to ON. The sound field is linked to that station and will then turn on whenever you select the station.

To show other control buttons

Click on SUB. If you click on USER, buttons recorded in the user IR code set appears. (See page 32.)

To replace a preset station with a new one

Do the procedure up to step 7, then click on the button where the new station is to be stored.

Note

If the power cord has been disconnected from the AC power outlet, preset stations will stay in the memory for approximately two weeks. Stations that disappear afterwards must be preset again.

Controlling a Sony DSS Receiver

Click on SATL in the FUNCTION SELECT menu, then click of CURSOR MENU.
The DSS receiver control panel appears. Except for the SELECT button, which substitutes for the enter button, all buttons on the DSS receiver control panel have the same function as those on the DSS receiver.

Controlling StarSight Functions With Sony VCR

Click on video program source which IR code is in VTR 3, in the FUNCTION SELECT menu, then click on TV ➡, and STAR ➡.
The StarSight control panel appears.

Note

If your VCR has a built-in StarSight tuner, make sure the command mode is set to VTR 3.

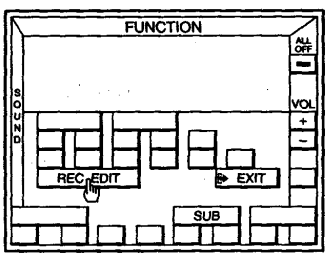
Recording a Program Source

Use this procedure to record to a cassette deck, DAT deck, MiniDisc deck, or video deck. When you record from a TV tuner, which is not a tuner in the video deck, click on INPUT in the video deck control panel for a Sony VCR or use the remote commander of the video deck to select external video input for a non-Sony VCR.

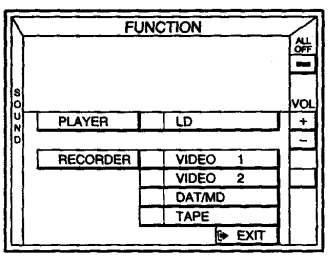
1 **Click on FUNCTION in the main menu.**
The FUNCTION SELECT menu appears.

2 **Click on an audio or video program source.**
If you select a laser disc player, for example, the laser disc control panel will appear.

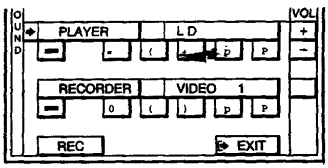
3 **Click on SUB, then click on REC EDIT.**



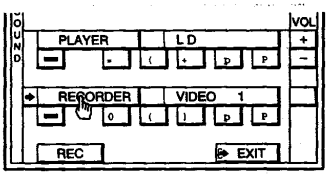
4 **Click on an audio or video recording unit.**
If you click on LD, for example, the control panels of both the program source and recording unit will appear on the TV screen.



5 **Click on REC, then click on ► on the program source control panel.**
Recording of the program source begins.



To switch control to the recording unit
Click on RECORDER. Monitoring the on-screen display of the recording unit makes it easy to find the beginning of tracks or other material.
If you click on RECORDER during recording, recorder source will cut-off.



Click on PLAYER to return control back to the program source. If you leave the recording screen by clicking on FUNCTION SOUND, or EXIT, control returns to the player side, even if you click on RECORDER.

Notes

- If you click on FUNCTION SELECT menu and click on another program source during recording, new selected program source will be recorded.
- Some cassette decks require the simultaneous pressing of the ● REC and ► buttons to record. To do one-button recording with only the ● REC button, do steps 1 to 7 of "Registering Your Audio/Video Equipment" (pages 15 to 16) for a non-Sony product, even if your deck is a Sony product, and press the ► button while holding down the ● REC button when ● REC appears on the screen in step 7.

To stop recording
Click on ■ of the recording unit.

To return to the main menu.
Click on EXIT.

Note
Sound input through the TAPE connectors on the rear panel cannot be recorded on a recording unit.

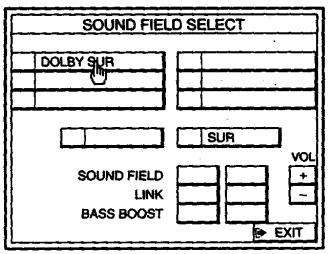
Preparing Your Space for Dolby Surround Sound

The STR-G3 has the capability to reproduce the Dolby surround sound code available on some entertainment software to provide the same dynamic sound normally available only in movie theaters.
In this procedure, you will maximize the Dolby surround sound effect by:

1 Specifying the Dolby surround mode for your speaker configuration
2 Equalizing the speaker volume level
3 Adjusting the delay time of the rear speakers.

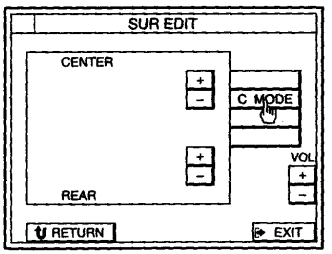
1 Click on SOUND in the main menu.
The SOUND FIELD SELECT menu appears.

2 Click on DOLBY SUR.

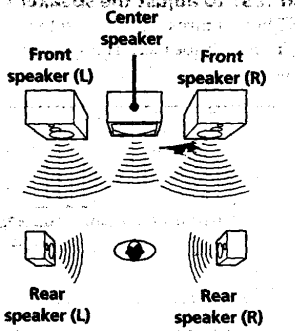


3 Click on SUR.
The SUR EDIT menu appears.

4 Click on C MODE to select the surround sound mode.
Each click selects NORMAL, WIDE, PHANTOM, or 3CH. LOGIC mode.



Description of Dolby surround sound modes



NORMAL mode
Select this mode when using a small center speaker (e.g., the TV speaker). The front speakers output the bass sound of the center channel since the small speaker produces insufficient bass.

WIDE mode
Select this mode when using a medium to large center speaker.

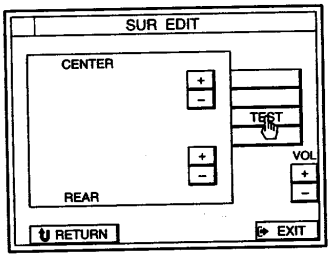
PHANTOM mode
Select this mode when not using a center speaker. The front speakers output the sound of the center channel.

3CH.(Channel) LOGIC mode
Select this mode when using only front and center speakers. The front speakers output the sound of the rear channel.

Note
Some commercially available software may have Dolby surround sound tracks even when DOLBY SURROUND PRO LOGIC is not indicated on the package.

(Continued)

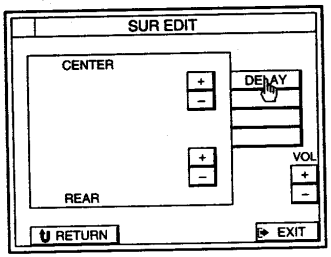
5 **Click on TEST to adjust the speaker volume.**
The TEST button turns on and a test tone is sequentially emitted from each speaker. The speaker emitting a test tone is shown in red on the TV screen.



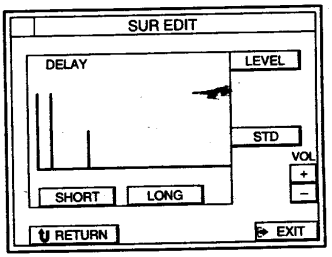
6 **Equalize the volume of all speakers.**
Click on CENTER + and CENTER – to adjust the volume of the front speakers, and REAR + and REAR – to adjust the volume of the rear speakers.
VOL + and VOL– on the right side of the screen control the overall volume of all speakers.

7 **Click on TEST.**
The TEST button turns off and the test tone stops.

8 **Adjust the delay time by clicking on DELAY while listening to a program source.**



9 **Click on SHORT or LONG to adjust the delay time.**



To leave the menu
Click on EXIT.

To go to the previous menu
Click on RETURN.

To adjust the volume level of the center and rear speakers.
Click on LEVEL, then click on the + and – buttons for each speaker.

Note
If you click on STD in Step 9, the parameters of the selected sound field return to their factory settings.

Customizing a Sound Field

The digital signal processing in the STR-G3 consists of two parts: (1) a digital surround processor which electronically reproduces the acoustics of various listening environments, and (2) a tone control system which adjusts the output level of specific frequency ranges. These parts function together to create specific sound fields.

Your STR-G3 comes with six factory-set sound fields, each with varying digital surround processor and tone parameters tailored to produce a variety of listening environments (such as a movie theater or stadium, etc.).

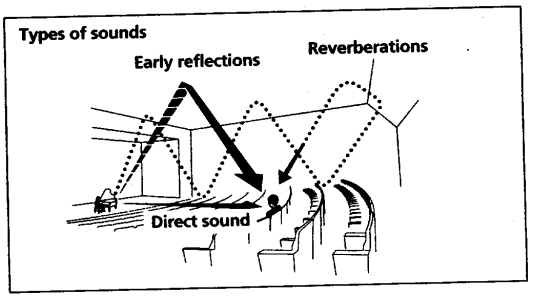
Description of Sound Fields

SOUND FIELD	Characteristics
DOLBY	Decodes programs processed with the Dolby surround effect.
THEATER	Adds the reflections of a theater to decoded signals of the Dolby prologic decoder.
HALL	Reproduces the acoustics of a rectangular concert hall with soft sound. It is effective for playing a program source with hard sound.
STADIUM	Reproduces the acoustics of an outdoor stadium with a long pre-delay time. It is effective for playing a program source recorded in a stadium.
GAME	Reproduces the dynamic acoustics of an amusement park.
ACOUSTIC	The surround effect is off.

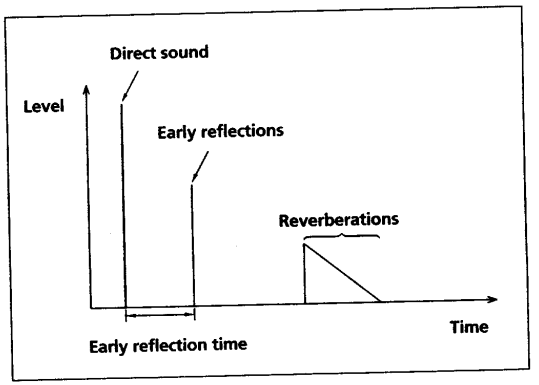
How the Digital Surround Processor Works

Sounds that you hear within an enclosed space such as a movie theater or concert hall can be classified as direct sound, reflected sound (early reflections) or reverberating sound (reverberation). When we hear these sounds together, we get a sense of the size and type of the space.

By reproducing early reflections, reverberation and other sound characteristics, the digital surround processor recreates the sound fields of particular environments.



The transition over time of direct sound, early reflections, and reverberation can be graphed as follows:



Customizing a Sound Field

Sound Field Settings

The table below shows the parameters that can be adjusted for each sound field.

Parameter \ SOUND FIELD		DOLBY SUR	THE-ATER	HALL	STADIUM	GAME	ACOUS-TIC
Tone level processor parameters		O	O	O	O	O	O
Digital surround processor parameters	SUR effect	×	O	O	O	O	×
	Delay time	O	×	×	×	×	×
	Rear level	O	O	O	O	O	×
	Center level	O	O	×	×	×	×

O: adjustable ×: non-adjustable

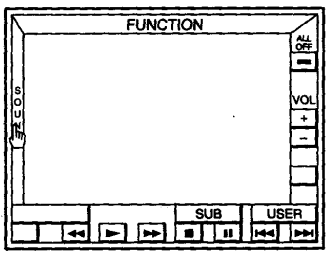
Your STR-G3 comes with six preset sound fields. Adjustable parameters (digital surround sound and tone) are also provided to allow each sound field to be customized. Use the two following procedures to adjust the digital surround sound and tone parameters.

Before starting this procedure, you must play a program source so that you can monitor the sound while making adjustments. Once a sound field is specified, it is linked to the program source (except for the TAPE function) and is activated whenever the program source is selected.

Adjusting the Surround Sound Parameters

This procedure modifies the effect level (LEVEL), which is the balance between early reflections and reverberations. The higher this level is, the more "alive" a room becomes; the lower this level is, the "deader" the room becomes.

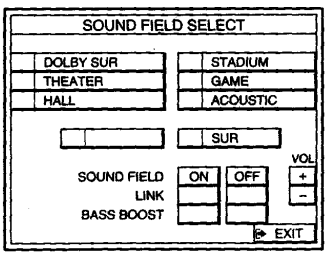
1 While playing a program source, click on SOUND in the main menu.



2 Click on a sound field.

Click on SOUND FIELD ON.

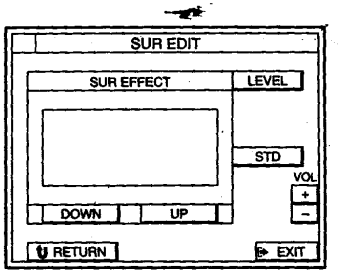
Once you've selected a sound field, all changes that you make to the surround sound parameters are automatically saved for that sound field.



3 Click on SUR.

The SUR EDIT menu appears.

4 Click on DOWN or UP.



Note

You may hear some noise as you adjust the parameters.

To leave the menu

Click on EXIT.

To return to the previous menu

Click on RETURN.

To adjust the volume

Click on VOL + or –.

If the AC power cord is disconnected

Stored sound field data are maintained for about two weeks. If data have been erased after this time has passed, "ALL CLEAR" appears on the TV screen when you turn the unit on again.

If you select ACOUSTIC

This sound field has no adjustable digital surround sound parameters. Only the tone parameters can be adjusted. See "Adjusting the Tone Parameters (TONE EDIT)" on page 26.

Note

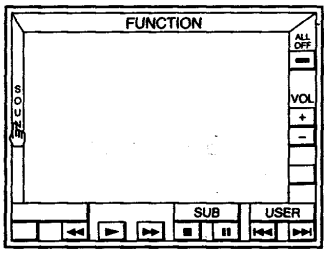
If you click on STD in the SUR EDIT menu in Step 4, the parameters of the selected sound field return to their factory settings.

Customizing a Sound Field

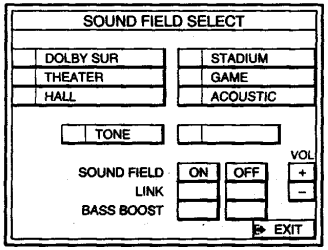
Adjusting the Tone Parameters (TONE EDIT)

The tone parameters are part of a tone control system that allows you to adjust the bass and treble levels. Before adjusting these parameters, play a program source so that you can listen to the actual sound as you adjust the levels.

1 Click on SOUND in the main menu.



2 Click on the sound field.

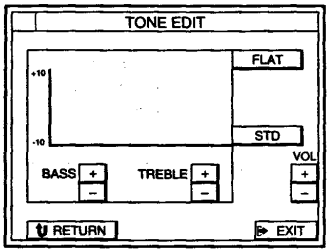


3 Click on TONE.

The TONE EDIT menu appears.

4 Click on BASS +/– or TREBLE +/– to adjust the respective levels.

Once you've selected a sound field, all changes that you make to the tone parameters are automatically saved.
The range is ±10 dB.
Click on FLAT to flatten the band to 0 dB.



Note

You may hear some noise as you adjust the tone parameters.

To leave the menu

Click on EXIT.

To return to the previous menu

Click on RETURN.

To adjust the volume

Click on VOL + or –.

If the AC power cord is disconnected

Stored sound field data are maintained for about two weeks. If data have been erased after this time has passed, "ALL CLEAR" appears on the TV screen when you turn the unit on again.

Note

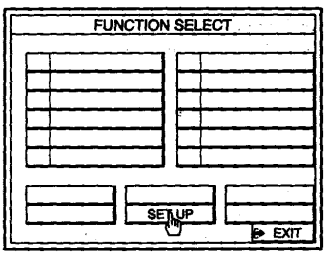
If you click on STD in the SUR EDIT menu in Step 4, the parameters of the selected sound field return to their factory settings.

Operating the STR-G3 Without the TV Set (Illuminated Control Flasher)

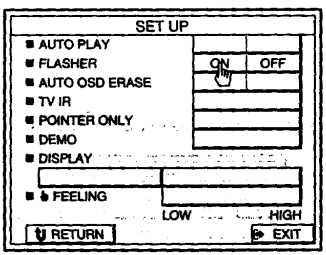
The Illuminated Control Flasher (or flasher) function allows you to control program sources connected to your STR-G3 without a TV set and using only the remote commander and front panel of the STR-G3.
When you move the remote commander, the indicator lamps on the front panel light up in succession. By controlling these lamps, you can select and control program sources that appear in the display.

1 **Click on FUNCTION in the main menu.**
The FUNCTION SELECT menu appears.

2 **Click on SET UP.**



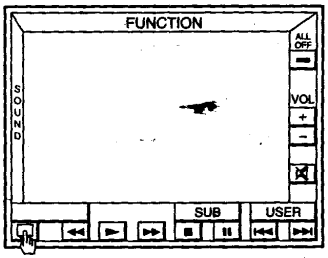
3 **Click on FLASHER ON.**



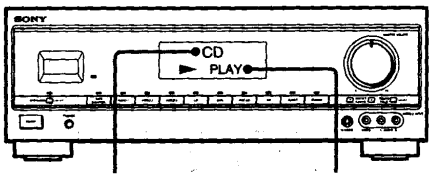
4 **Click on an audio program source in the FUNCTION SELECT menu.**

Note
The flasher function works for audio program sources only.

5 **Click on [TV] in the bottom left corner.**
The TV set turns off.



6 **Move the remote commander from left to right.**
The operation buttons for the selected program source appear in the display one by one, according to the movement of the remote commander.



Selected-program source **Operation button**

The operation buttons for each program source appear as shown in the table below. Moreover, the indicator lamp corresponding with the selected operation button also lights up.

DAT/MD	⏮ ▶ ⏭ ■
CD	⏮ ▶ ⏭ ■
TUNER	CH– CH+
PHONO	No display
TAPE	◀◀ ▶ ▶▶ ■
Common to all program sources	INPUT SELECT ALL OFF TV ON VOLUME – VOLUME + MUTE

7 **Press the remote commander when the control button you want to operate appears.**

Selecting an other program source
1 Click on INPUT SELECT.
2 Move the remote commander from left to right.
The various program sources appear in the display one at a time. If you select a VCR, the TV set will turn on automatically.

To cancel the flasher function
Click on TV ON, or Select a VCR.

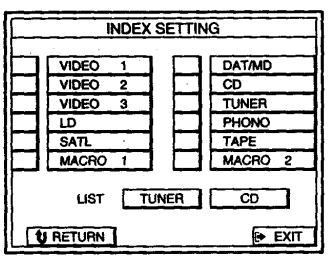
Adding Names (INDEX)

Using the INDEX menu, you can specify names of up to 7 characters for each program source or preset radio station buttons, and names of up to 12 character for each compact disc (up to 100 discs) or group in a CD changer. You can also use the same procedure to select program source icons from an icon menu or change existing names.

1 Click on FUNCTION in the main menu.
The FUNCTION SELECT menu appears.

2 Click on INDEX.

3 Click on the program source name or program source icon to be changed.
If you clicked on an icon, select a new icon from the icon menu.

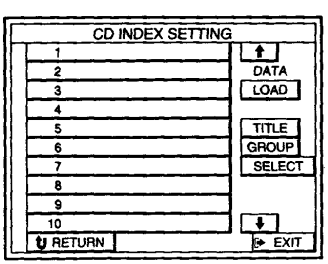


Adding a radio station name to a preset radio station button
Click on LIST TUNER.
A list of the preset frequencies appear. Click on A, B, or C to select the page. Then click on 0 to 9 to select the button to be named.

Adding names to CDs in a CD changer
Follow one of the two procedures, **A** or **B**, according to the type of your CD changer.

A If your CD changer is a Sony product with a CTRL A jack, you can do the following procedure to download all of the CD name data in the CD changer, thus saving you the trouble of adding names one by one.

1 Click on LIST CD.



2 Click on LOAD.
CD name data are downloaded. After about one minute, the downloaded CD data appears in the CD INDEX SET menu.
Do this procedure when you first connect the CD changer.

Notes
— The DATA LOAD button will not appear if the CD changer is not connected to CTRL A, or is not turned on.
— If the follwing characters have been recorded in the CD changer, they will appear as blanks in the on-screen display: ! " # $ % & ' ( ) , ; ? • 1 0 ä ö ü
Lowercase letters are also changed to uppercase.

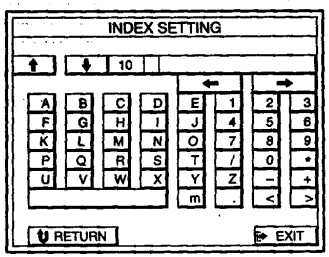
B If your CD changer is not a Sony Product or does not have a CTRL A jack, you will have to add names manually as follows;

1 Click on LIST CD.

2 • To name a disc
Click on TITLE.
Display the number of the disc to be named by clicking on ↑ or ↓ on the right side of screen, then click on the title to be named.
• To name a group
Click on GROUP, then on the name of the group to be named.

When you want to change the name of disc or group in the Sony CD changer, follow the procedure **B**.

4 Spell out the name by clicking on each character.



- To correct an entered character, click on ← or → under the cursor to highlight the character, then click on the correct character.
- To erase an entered character, click on ← or → under the cursor to highlight the character, then click on the space bar.
- To name another disc or group, specify the disc number or group number by clicking on ↑ or ↓ in the upper left corner of the screen.

Note
Names added with the INDEX function do not appear in the front panel display on the STR-G3.

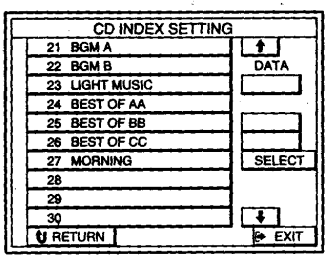
Change the Group Assignment of a Particular Disc

1 **Click on FUNCTION.**
The FUNCTION SELECT menu appears.

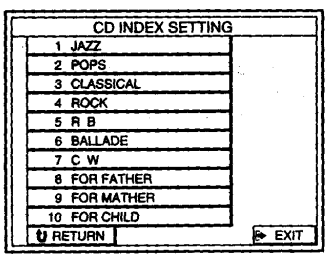
2 **Click on INDEX.**
The INDEX SETTING menu appears.

3 **Click on LIST CD.**

4 **Click on SELECT, then on disc to be assigned to a new group.**
If the disc that you want is not displayed, click on ↑ or ↓ until it does.



5 **Click on the new group name.**



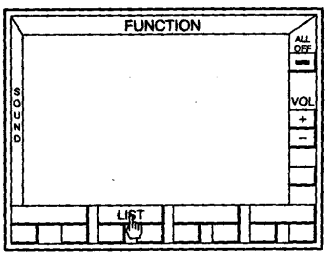
You can assign the same CD to several groups.
For example, to assign the CD "BGM A" to two groups, "CLASSICAL" and "FOR FATHER", click on both "CLASSICAL" and "FOR FATHER" in the CD INDEX SETTING menu, highlighting both group names.

Playing CDs With the LIST Function

1 **Click on FUNCTION in the main menu.**
The FUNCTION SELECT menu appears.

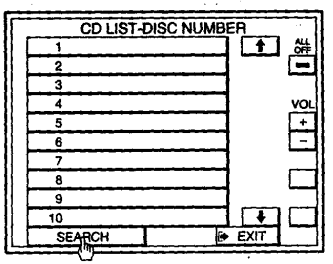
2 **Click on CD.**

3 **Click on LIST.**



Note
The LIST function can only be used with CDs.

4 **Click on SEARCH to locate the disc you want to listen to.**
Click on ↑ or ↓ to show the group of 10 discs that comes before or after the current group.
If you click on a disc name, it will begin playing immediately.

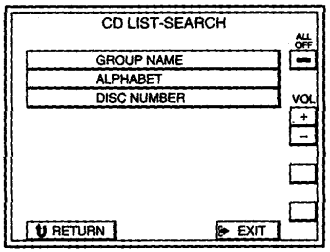


Note
Depending on the type of your connected CD changer (3 or 5 disc changer, etc), you cannot select the CD even if you click on a disc name. In this case, select the CD in the normal CD control panel.

(Continued)

Adding Names (INDEX)

5 Click on GROUP NAME, ALPHABET, or DISC NUMBER.



When you click on GROUP NAME, a list of groups appears.
When you click on a particular group name, the names of the discs within that group appears.

When you click on ALPHABET, disc names appear in alphabetical order, ten discs at a time.
When you click on DISC NUMBER, disc numbers appear in numerical order, ten discs at a time.

Click on ↑ or ↓ to show the group of 10 discs that come before or after the current one.
If you click on a disc name, it will begin playing immediately.

6 Click on a disc name.
The disc starts to play.

Note
If the connected CD changer is made by another manufacturer, and the sequence to start playback is other than pressing numeric button followed by pressing disc button, then playback will not start even when you click on a disc name. In this case, return to the main menu, click on SUB, and operate the CD changer according to the playback procedure of that CD changer.

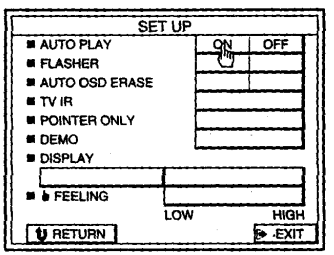
Starting Program Sources Automatically — AUTO PLAY

When the AUTO PLAY function is on, program sources will start playing immediately when you select them from the FUNCTION SELECT menu. Do the following procedure to turn the AUTO PLAY function on.

1 Click on FUNCTION in the main menu.
The FUNCTION SELECT menu appears.

2 Click on SET UP.

3 Click on AUTO PLAY ON.



To turn AUTO PLAY off.
Click on AUTO PLAY OFF in step 3.

Notes
- If you select a program source while another is playing, the current program source stops and the newly selected program source starts playing.
- The AUTO PLAY function does not work when you operate the unit from the front panel.
- The AUTO PLAY function may not work for some program sources with poor remote control response. If you experience this, press POWER on the front panel of the unit to turn off the power, then turn it on again while holding down the SATL and DAT/MD buttons. This will increase the distance of IR signal transmission, thus facilitating reception by the various program sources.

Enjoying Two Program Sources at the Same Time

Use the procedure below to play two program sources at the same time (for example, to play a laser disc while listening to a compact disc). Before doing this procedure, make sure the AUTO PLAY function is off. (See the previous section, "Starting Program Sources Automatically–AUTO PLAY" on page 30.)

1 Click on FUNCTION.
The FUNCTION SELECT menu appears.

2 Click on a video program source.
The control panel of the video program source appears.
Click on ►.

3 Click on FUNCTION, then click on an audio program source.
The control panel of the audio program source appears.
Click on ►.

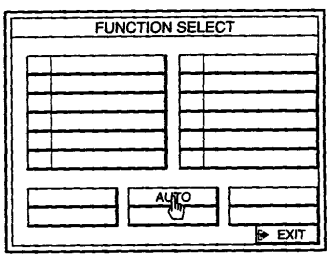
To stop play
Click on the ■ button on each control panel.

Starting a Specified Program Source Automatically — AUTO START

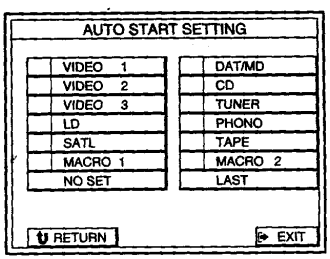
Once you have specified a program source with the AUTO START SETTING menu, the program source will automatically turn on and start playing whenever you turn on the STR-G3.

1 Click on FUNCTION in the main menu.

2 Click on AUTO.



3 Click on the program source that you want to start playing automatically.
Only one program source can be selected at a time.
You can also use the AUTO START function to activate MACRO 1 and MACRO 2.
When AUTO PLAY function is ON and program source specified in MACRO PLAY setting (see page 34)
When LAST is specified, the program source last played will turn on automatically the next time you turn on the STR-G3.



To cancel the AUTO START function
Click on NO SET in step 3. AUTO START will not operate when you turn on the STR-G3.

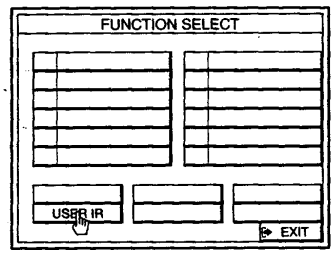
Note
If ALL OFF has been selected in a macro (see page 34), that macro cannot be selected for automatic execution by the AUTO START function.

Recording Other Manufacturers' Infrared (IR) Codes — USER IR CODE SETTING

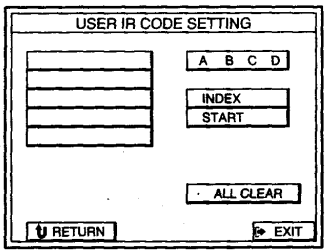
Use the USER IR CODE SETTING menu to store infrared (IR) codes that you cannot record in "Registering Your Audio/Video Equipment" on page 15. These include codes for audio, video and other equipment mode by manufacturers other than Sony. Do the procedure below to record up to 20 IR codes.

1 **Click on FUNCTION in the main menu.**

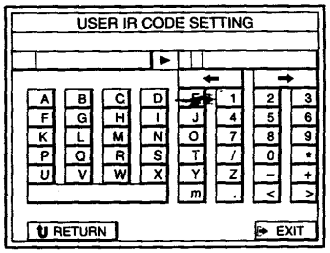
2 **Click on USER IR.**



3 **Click on A, B, C, or D, then click on INDEX.**



4 **Spell out the name of the IR code by clicking on each character.**



- To correct an entered character, click on ← or → under the cursor to highlight the character, then click on the correct character.
- To erase an entered character, click on ← or → under the cursor to highlight the character, then click on the space bar.

5 **After entering the name, click on RETURN.**
The USER IR CODE SETTING menu reappears.
Repeat steps 3 and 4 until you enter all the names of the IR codes you want to record.

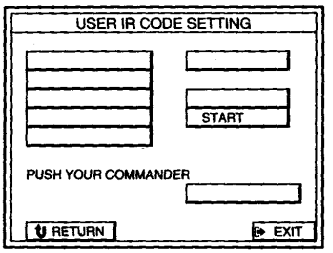
6 **Click on START.**
"PUSH YOUR COMMANDER" appears on the TV screen.

To rerecord a specific IR code that has been recorded before
Click on the button where the IR code recorded before clicking on START.

Note
When recording the IR codes of electrical equipment, turn the original equipment off, or cover its remote control sensor.

7 When a control button is highlighted on the TV screen, press the same button on the remote commander.

Point the remote commander at the infrared sensor on the left side of the front panel from a distance of about 8 inches (20 cm) and hold down the indicated button on the remote commander when you see the command "PUSH YOUR COMMANDER" on the TV screen.
The IR code takes about 5 seconds to be recorded. This is followed by the instruction "RELEASE YOUR COMMANDER" on the TV screen. Repeat this procedure for the remaining buttons.



Notes

- To erase all IR codes that have been recorded, click on ALL CLEAR.
- Even if the units power cord has been disconnected from the AC power outlet, recorded IR codes will stay in the memory for approximately two weeks. If they disappear, "ALL CLEAR" will appear on the TV screen when you turn on the unit again.

Notes

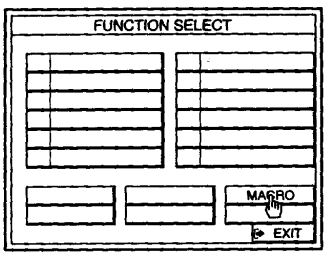
- The power switch on some air conditioners use two independent IR codes, even when there is only one switch. If you cannot turn the air conditioner off with the IR code recorded for the on/off switch, repeat the procedure and record the on and off IR codes separately.
- The operation of some air conditioner remote commanders require two-way signal exchange with the air conditioner itself. Though it is possible to record the IR codes of such remote commanders in the unit, their use may not result in normal air conditioner operation.
- The unit may not be able to record IR codes with special waveforms produced on some remote commanders.

Starting Program Sources and Other Electrical Equipment Automatically and Sequentially — MACRO PLAY SETTING

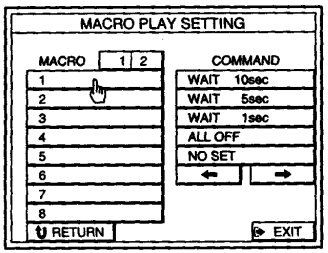
A macro is a command that links up to eight IR codes for execution in sequential order. You can specify IR codes from the IR code set and user IR code set to create two macros, then execute the macros manually by selecting them from the FUNCTION SELECT menu or automatically by specifying them in the AUTO START SETTING menu. (See page 31.)

1 **Click on FUNCTION in the main menu.**
The FUNCTION SELECT menu. appears.

2 **Click on MACRO.**
The MACRO PLAY SETTING menu appears.



3 **Click on MACRO 1 or 2.**



4 **Click on button 1.**
This number indicates the starting point of the IR codes specified in the macro.

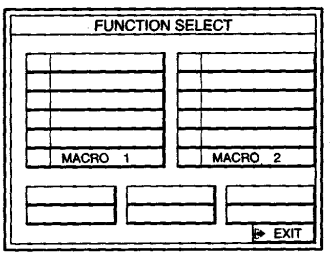
5 **Click on ← or →, to show selectable IRcodes in the button.**
As you click, the IR codes recorded for the various program sources in the FUNCTION SELECT menu and in the user IR code set appear one by one in the buttons on the right of the screen.
To specify a time lag between the execution of one IR code and the execution of the next, click until the time lag durations (WAIT 10 sec, WAIT 5 sec, and WAIT 1 sec) appear.
To record an IR code to turn off program sources, click until ALL OFF appears.

Note
If a macro has been selected for automatic execution by the AUTO START function (see page 31), ALL OFF cannot be selected in that macro.

6 **Click on the IR code that you want.**
The name of the IR code appears in the highlighted numbered button on the left, and the next numbered button is highlighted. Repeat steps 5 and 6 to enter up to eight IR codes.
To erase an entered IR code, highlight the code by clicking on it, click on → until NO SET appears in the button on the right of the screen, then click on NO SET to erase the IR code.

To enter IR codes randomly
Click on the numbered button, then click on the IR code.

To execute a macro
Click on MACRO 1 or MACRO 2 in the FUNCTION SELECT menu.



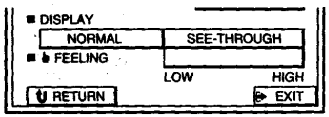
Selecting the Display Color

Use this procedure to select one of two display colors: NORMAL or SEE-THROUGH, and one of three display modes: AUTO OSD ERASE, POINTER ONLY, or DEMO.

1 Click on FUNCTION in the main menu.
The FUNCTION SELECT menu appears.

2 Click on SET UP.

3 Click on DISPLAY NORMAL or SEE-THROUGH to select the display color.



NORMAL: The display appears in a factory-set color.
SEE-THROUGH: All menus and control panels are transparent, with only characters and outlines visible, allowing you to see the contents of video and laser disc programs.

Note
Even if you have selected SEE-THROUGH, the display color changes to NORMAL when there is no video signal input. When a video signal is input again, the display color reverts to SEE-THROUGH.

4 If necessary, click on AUTO OSD ERASE ON or OFF, POINTER ONLY SET or DEMO START to select the display mode.

Display modes

AUTO OSD ERASE:
When this mode is on, control panels disappear whenever you click on any control button and hold the button down. When you release the button, the control panel reappears.
This display mode is useful during laser disc operations since it allows you to see the chapter numbers that would otherwise be hidden by the control panel.

POINTER ONLY:
By clicking on POINTER ONLY SET, the on-screen display disappears except for the pointer and EXIT button. To freeze the pointer, hold down the button on the remote commander. This display mode is useful when using the pointer to point to specific display items during presentations.

DEMO:
Clicking on START activates a program that explains the various functions of the unit. To stop the program, click the button on the remote commander two or three times. Please note that the program data up to the point where the program is stopped are saved in the unit's memory, replacing any data that was previously stored, such as digital surround sound parameters. For this reason, you should use the DEMO mode only when no data is stored or when overwriting existing data does not matter.

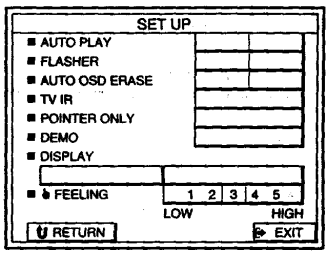
Specifying the Sensitivity of the Remote Commander — FEELING

You can select five sensitivity levels that determine the speed at which the pointer moves.

1 Click on FUNCTION in the main menu.
The FUNCTION SELECT menu appears.

2 Click on SET UP.

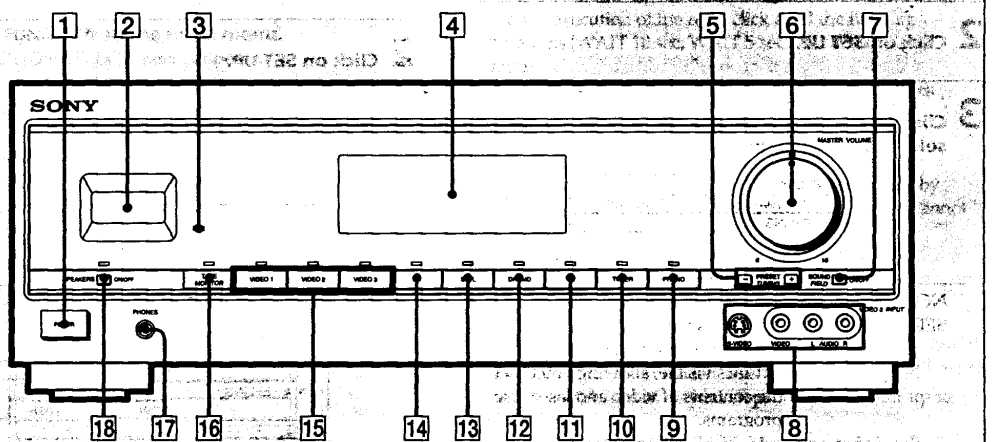
3 Click on FEELING 1 to 5.
The higher the number, the faster the speed.



Note
If you find it difficult to change the remote commander sensitivity because the setting is too high (i.e., 5), turn off the unit, then turn it on while holding down the CD and PHONO buttons on the front panel.
The remote commander sensitivity will return to the factory-set value.

Identifying the Parts and Controls

Front Panel



1 **POWER switch**

2 **Infrared (IR) emitter**
Emits IR codes to program sources.

3 **Infrared (IR) codes setting indicator**
Lights up when the unit receives IR codes.

4 **Display**
Shows the program source, function, and tuning frequency, etc.

5 **PRESET TUNING (+/–) buttons**
Selects the preset stations.

6 **MASTER VOLUME control**
Adjusts the overall sound volume.

7 **SOUND FIELD button (ON/OFF)**
Turns the sound field on and off.

8 **VIDEO 3 INPUT jacks**
For connecting camcorders or video game units, etc.

9 **PHONO button**
Selects the record player connected to the PHONO jack.

10 **TUNER button**
Selects the tuner.

11 **CD (Compact Disc) button**
Selects the compact disc player connected to the CD jacks.

12 **DAT/MD (Digital Audio Tape/MiniDisc) button**
Selects the DAT deck or MiniDisc deck connected to the DAT/MD jacks.

13 **SATL button**
Selects the DDS receiver connected to the SATL jacks.

14 **LD (Laser Disc) button**
Selects the laser disc player connected to the LD jacks.

15 **VIDEO 1–3 buttons**
Selects the video decks connected to the VIDEO 1–3 jacks.

16 **TAPE MONITOR button**
When pressed, allows monitoring of an audio program source during recording.

17 **PHONES jack**
Connects stereo headphones.

18 **SPEAKERS button (ON/OFF)**
Turns the speakers on and off.

Specifications

Audio Power Specifications

For the customers in the U.S.A.
POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
With 8 ohm loads both channels driven, from 20 - 20,000 Hz; rated 110 watts per channel minimum RMS power, with no more than 0.3 % total harmonic distortion from 250 milliwatts to rated output.

	Surround mode (at 1 kHz, THD 0.8% 8 ohms)
FRONT	100 W + 100 W
CENTER [a]	100 W
REAR	50 W + 50 W

[a] Only in the DOLBY SUR and THEATER modes.

Other Specifications

Dynamic power output (in the stereo mode)	8 ohms, at 1 kHz IHF	160 W + 160 W
	4 ohms, at 1 kHz IHF	225 W + 225 W
Frequency response	PHONO	RIAA equalization curve ±0.5 dB
	CD, DAT/MD, TAPE, VIDEO 1,2,3, LD, SATL	10 Hz – 50 kHz $^{+0}_{+1}$dB
Damping factor (8 ohms, at 1kHz)		50
Input sensitivity/ impedance	PHONO MM	2.5 mV, 50 kilohms
	CD	300 mV, 50 kilohms
	DAT/MD TAPE, VIDEO 1,2,3, LD, SATL	250 mV 50 kilohms
S/N	PHONO MM	75 dB 75 dB [b] (A, 2.5 mV)
	CD, DAT/MD TAPE, VIDEO 1,2,3, LD, SATL	82 dB 82 dB [b] (A,150 mV)

[b] '78 IHF

Level sensitivity/ impedance	DAT/MD, TAPE, VIDEO 1,2	250 mV 10 kilohms
	HEADPHONES	Accepts headphones of high and low impedance
	MIX OUT	1 V, 1 kilohm
MUTING		–20 dB
BASS BOOST		+10 dB at 70 Hz

Digital signal processor section

Surround	SURR EFFECT	5-step adjustable
	DELAY TIME [c]	15 ms – 30 ms, 5 ms step
	REAR LEVEL [c]	–15 to +10 dB, 1 dB step
	CENTER LEVEL [d]	–15 to +10 dB, 1 dB step
Tone control	BASS	100 Hz ±10 dB, 2 dB step
	TREBLE	100 Hz ±10 dB, 2 dB step

[c] Only in the DOLBY SUR mode.
[d] Only in the DOLBY SUR, THEATER and LIVE modes.

(Continued)

Specifications

FM tuner section

Tuning range		87.5 – 108.0 MHz
Antenna terminals		75 ohms, unbalanced
Sensitivity		18.3 dBf, 4.5 µV (mono) 38.3 dBf, 45 µV (stereo)
Usable sensitivity		11.2 dBf, 2 µV (IHF)
S/N	Mono	76 dB
	Stereo	70 dB
Harmonic distortion at 1 kHz	Mono	0.3 %
	Stereo	0.5 %
Separation		45 dB at 1 kHz
Frequency response		30 Hz – 15 kHz $^{+0}_{-2}$ dB
Selectivity		60 dB at 400 kHz

AM tuner section

Tuning range	530 – 1,710 kHz (with 10 kHz interval*) 531 – 1,710 kHz (with 9 kHz interval)
Antenna	Loop antenna
Usable sensitivity	50 dB/m (at 1,000 kHz or 999 kHz)
S/N	54 dB (at 50 mV/m)
Harmonic distortion	0.5% (50 mV/400 Hz)
Selectivity	35 dB (9 kHz), 40 dB (10 kHz)

* You can change the AM tuning interval to 9 kHz (or 10 kHz). After tuning in any AM station, turn off the receiver. Hold down the PRESET TUNING + button and press the POWER button. All preset stations will be erased when you change the interval. To reset the interval to 10 kHz (or 9 kHz) repeat the procedure.

Video section

Inputs	VIDEO 1,2,3, LD, SATL: 1 Vp-p 75 ohms	
Outputs	VIDEO 1,2, MONITOR: 1 Vp-p 75 ohms	
S VIDEO INPUT	VIDEO 1,2,3, LD	Luminance: 1 Vp-p 75 ohms Chrominance: 0.286 Vp-p 75 ohms
S VIDEO OUT	MONITOR VIDEO 1,2	Luminance: 1 Vp-p 75 ohms Chrominance: 0.286 Vp-p 75 ohms

General

System	Tuner section	PLL quartz-locked digital synthesizer system
	Power amplifier section	Pure-complimentary SEPP
Power requirements		U.S.A. and Canadian models: 120 V AC, 60 Hz Other countries model: 120, 220 or 240 V AC adjustable, 50/60 Hz
Power consumption		U.S.A. model: 230 W Canadian model: 325 VA Other countries model : 250 W
AC outlets		U.S.A. and Canadian models: 2 switched, total 120 W/1A max. Other countries model: 100W
Dimensions (including projecting parts and controls)		Approx. 430 × 148 × 365 mm (w/h/d) (17 × 5 7/8 × 14 3/8 inches)
Mass		Approx. 10.0 kg (22 lb 1 oz)

Supplied accessories

FM wire antenna (1)
AM loop antenna (1)
Remote commander (RM-VP1) (1)
Sony batteries SUM-3(NS) (2)
Remote Control (RC) antenna (1)
IR repeater (1)
Getting Started and Basic Operation (1)
AC plug adaptor (1)
(only for the model on which the voltage selector is set to 220 V AC)

Design and specifications are subject to change without notice.

Troubleshooting Guide

Before proceeding through the check list below, examine the connections and the procedures outlined in the manual. Should any problem persist after you have checked the following items, consult your nearest Sony dealer.

Problem	Cause	Remedy
The TV set turns off when you try to turn on the unit with the remote commander.	The on/off signal of the remote commander is unsynchronized with that of the TV set.	Make sure that the TV set is off at the time you turn on the unit with the remote commander.
When you select a program source from the FUNCTION SELECT menu, the selected program source turns off.	The program source was turned on by a different remote commander.	Turn on the program source manually.
No station can be tuned in by Automatic Tuning.	The signal strength of the station is too weak to be detected by Automatic Tuning.	Check the antenna connection. (See page 8.)
The STEREO indication flickers or does not appear when receiving stereo programs.	A very weak FM station or noisy FM program is being received.	Adjust the antenna or connect an external FM antenna. (See page 8.)
There is a noise during AM reception.	The signal strength of the stations is too weak, or there is interference from the TV set.	Adjust the antenna or move the antenna of TV set away from the unit.
No stations can be tuned in with the PRESET TUNING +/– buttons.	No stations have been preset.	Preset the stations. (See page 19.)
No sound is heard even if you adjust VOL.	The speaker or program source is not connected properly.	Connect the equipment properly. (See pages 9, 10, 11.)
No sound or a very low-volume sound is heard from the rear speakers.	The SOUND FIELD function is turned off.	Click on SOUND FIELD ON to turn on the function.
	ACOUSTIC is selected in the SOUND FIELD SELECT menu.	Select another sound field.
	A monaural program source is being played back in Dolby surround mode.	Select another mode.
Only a very low-volume sound can be heard.	The muting button has been clicked.	Click on the button again to cancel the muting function.
No sound is output from one speaker channel, or the left and right speakers are unbalanced.	The speakers or the program source is not connected properly.	Check and properly connect the equipment. (See pages 9, 10, 11.)
Sound from the speakers is cut off and the PROTECTOR indication flashes in the front-panel display.	An electrical short has activated a protection circuit.	Turn off the unit. Investigate the cause of the short, then fix it before turning on the unit again. If the problem was not caused by a short, consult your nearest Sony dealer.
Sound output from the speakers is reversed.	The speakers are not connected properly.	Connect the speakers with the correct phase. (See page 11.)
	The +/– connections of the speaker are reversed.	Connect the speakers with the correct phase. (See page 11.)

(Continued)

Troubleshooting Guide

Problem	Cause	Remedy
Severe hum or noise is heard.	The unit is not grounded.	Attach a ground wire to the antenna ground terminal. (See page 8.)
	The connections are loose.	Make the connections secure.
	The plugs and jacks are dirty.	Wipe the plugs and jacks with a cloth lightly dampened with alcohol.
Surround effect cannot be obtained.	The wrong button was clicked.	Click on TONE in the SOUND FIELD SELECT menu and adjust the sound field.
The frequencies cannot be adjusted.	The wrong button was clicked.	Click on TONE in the SOUND FIELD SELECT menu and readjust the frequencies.
The remote commander will not operate.	The batteries are exhausted.	Replace the batteries.
	The security number of the unit does not match that of the remote commander.	Change one of the numbers so that both numbers are the same for the unit and remote commander. (See page 12.)
	The RC antenna is not connected.	Connect the RC antenna to the RC ANT jack on the rear of the unit.
The pointer on the screen moves even when the remote commander is stationary.	The remote commander has been subjuected to a sudden temperature change or shock.	Place the commander on a flat surface, then try using it again when the on-screen display disappears.
The on-screen display disappears while you are using the commander.	The reception sensitivity of the RC antenna is poor.	Verify the followng; — The RC antenna is connected to the unit properly. — There is no metal object near the RC antenna. — The remote commander is not too far from the RC antenna.
The IR codes of non-Sony equipment cannot be recorded.	The remote commander is not aimed at the infrared sensor on the front panel, or the remote commander is more than 8 inches (20 cm) away from the infrared sensor.	Point the remote commander directly at the infrared sensor, or bring it within 8 inches (20 cm) of the infrared sensor.
	There is interference from a fluorescent light source.	Keep the infrared sensor away from fluorescent light.
The on-screen display color is distorted.	The VCR is connected to the S VIDEO and VIDEO jacks at the same time.	Use S VIDEO connectors alone, or only the VIDEO jacks if there are not S VIDEO connectors on the TV set. (See page 10.)
The on-screen display is distorted when you select a program source from the FUNCTION SELECT menu.	There is distortion in the video signal.	This is not a malfunction. Continue as is.
You have difficulty operating the unit because the on-screen display is distorted.	The quality of the video signal is poor.	— When you connect two or more VCRs to the unit, make sure to use the distributor for connecting the TV antenna to the VCRs. — Clean the head of the VCR. — Do not select the channel where there is no broadcast, or set the unit so that it skips the channel where there is no broadcast.
Some equipment does not turn off when you click on the ALL OFF button.	The equipment was turned on by another remote commander.	Turn off the equipment manually.

Note

If the unit does not operate properly even after attempting the prescribed remedies or other problems occur, try the following: (1) Turn off the power, turn it on again. If the unit still does not work, (2) turn off the power with the POWER switch, then reinsert the plug into the power outlet and turn the power on again. If the unit still does not work, (3) turn off the power with the POWER switch, then turn it on while holding down TAPE MONITOR and VIDEO 2 on the front panel. Please note, however, that this remedy will erase all data recorded in the unit.

Sony Corporation Printed in Malaysia